## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1-29. (Canceled)
- 1 1-52. (Canceled)
- 1 53. (Currently Amended) A printer configured for rendering data an XML
- 2 document according to a formatting template for printing an XML document, the formatting
- 3 template comprising an XML Descriptor (XMD) associated with an XML data element of
- 4 the XML document, wherein the XMD is identified by an associated qualified tag having a
- 5 concatenation of a plurality of XML start tags representing start tags hierarchically traversed
- 6 in the XML document to reach the XML data element, the XMD providing formatting to
- 7 content associated with the XML data element; the printer further configured for printing the
- 8 rendered XML document according to the template.
- 1 54. (Currently Amended) The formatting template printer of claim 53, wherein
- 2 the data map comprises a chain of XML descriptors for formatting attributes if XML
- 3 elements.
- 1 55. (Currently Amended) The formatting template printer of claim 53, wherein an
- 2 XML descriptor that does not have a matching qualified tag is skipped and a next XML
- 3 descriptor matching a start tag is used in formatting the XML data.

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1 56. (Previously Presented) A printing system, comprising: 2 a spooler for receiving printable information from the print channel; 3 a print services facility for parsing an XML file; and 4 a printer for printing the print steam according to the formatting defined by the 5 formatting template: 6 wherein the formatting template includes an XML Descriptor (XMD) 7 associated with an XML data element of the XML document, wherein the XMD is identified 8 by an associated qualified tag having a concatenation of a plurality of XML start tags 9 representing start tags hierarchically traversed in the XML document to reach the XML data 10 element, the XMD providing formatting to content associated with the XML data element, 1 57. (Previously Presented) The formatting template of claim 56, wherein 2 the data map comprises a chain of XML descriptors for formatting attributes if XML 3 elements. 1 58. (Previously Presented) The formatting template of claim 56, wherein 2 the parser skips an XML descriptor that does not have a matching qualified tag and uses a

next XML descriptor having a matching start tag to format the XML data.

comprising a buffer for storing start tags in order as the XML file is parsed.

(Previously Presented)

The formatting template of claim 56 further

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- 1 60. (Previously Presented) A method for printing XML documents directly 2 using a formatting template, comprising: 3 placing an XML document to be printed on a server spool; 4 parsing the XML document to identify start tags hierarchically traversed in the XML 5 document to reach an XML data element; 6 searching a data map comprising XML descriptors identified by an associated 7 qualified tag having a concatenation of a plurality of XML start tags until a qualified tag 8 associated with an XML descriptor matches the identified start tags hierarchically traversed 9 in the XML document to reach the XML data element; 10 formatting the XML data element according the XML descriptor associated with the 11 qualified tag having a concatenation of a plurality of XML start tags matching the identified 12 start tags hierarchically traversed in the XML document to reach the XML data element; 13 merging the XML element associated with the XML descriptor associated with the 14 qualified tag having a concatenation of a plurality of XML start tags matching the identified 15 start tags hierarchically traversed in the XML document to reach the XML data element to 16 produce a formatted print data stream; and 17 printing a document using the produced formatted print data stream. 1 61. (Previously Presented) The method of claim 60 further comprising 2 skipping an XML descriptor that does not have a matching qualified tag and using a next
- 1 62. (Previously Presented) An article of manufacture comprising a program
  2 storage medium readable by a computer, the medium tangibly embodying one or more

XML descriptor matching a start tag to format the XML data.

- 3 programs of instructions executable by the computer to perform a method for printing XML 4 files directly using a formatting template, the method comprising: 5 placing an XML document to be printed on a server spool; 6 parsing the XML document to identify start tags hierarchically traversed in the XML 7 document to reach an XML data element; 8 searching a data map comprising XML descriptors identified by an associated 9 qualified tag having a concatenation of a plurality of XML start tags until a qualified tag 10 associated with an XML descriptor matches the identified start tags hierarchically traversed 11 in the XML document to reach the XML data element; 12 formatting the XML data element according the XML descriptor associated with the 13 qualified tag having a concatenation of a plurality of XML start tags matching the identified 14 start tags hierarchically traversed in the XML document to reach the XML data element; 15 merging the XML element associated with the XML descriptor associated with the 16 qualified tag having a concatenation of a plurality of XML start tags matching the identified 17 start tags hierarchically traversed in the XML document to reach the XML data element to 18 produce a formatted print data stream; and 19 printing a document using the produced formatted print data stream.
- 1 63. (Previously Presented) The article of manufacture of claim 41 further
  2 comprising skipping an XML descriptor that does not have a matching qualified tag and
  3 using a next XML descriptor matching a start tag to format the XML data.